



Clean Design Processing Solutions

No product pellet, flake or powder loss

At Schenck Process, we are mindful of our environment in regards to elimination of waste and pollution. Our goal is to help plastic producers achieve no pellet, flake or powder loss.

Our expert team will design a complete system focused on saving you resources and revenue. Your neighbors and community will also benefit from a cleaner environment. We offer a variety of clean design processing solutions for plastic manufacturers:

Dry Bulk Railcar & Truck Cleanout Systems

Central Vacuum Systems

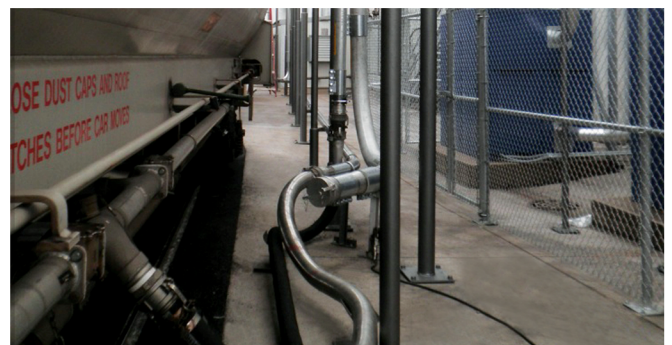
Point Containment & Dust Collection Systems

System Evaluations

Dry Bulk Railcar & Truck Cleanout / Deheeling Vacuum Unloading / Pull Push Rail Unloading

When a dry bulk truck or railcar needs to be cleaned out, vacuum or pressure cleanout systems can be utilized to remove and collect materials and ensure they do not end up in the surrounding environment.

Vacuum systems are able to move materials from the railcar to a receiver. The materials can then be discharged into a box, bag, dumpster or conveyed to another location to be re-used. If materials need to be conveyed to another location like a silo, then pressure conveying can be used. Pressure conveying is a better option if the materials need to travel longer distances.



Central Vacuum Systems

A dust collection system alone cannot keep a plant clean and dust free, so housekeeping must be part of any good dust collection plan or design. Manual cleaning (shoveling and sweeping) is very labor intensive and can often create additional airborne dust. Central vacuum systems are an effective way to clean industrial environments that will minimize recontamination and the labor cost of housekeeping.

Central vacuum systems are often used in loading, unloading and processing areas. Central vacuum systems can be used by multiple operators at multiple locations to collect all spilled materials for proper disposal. Installation in multiple areas reduces the amount of material that escapes to the surrounding environment. Material can be collected in drums, boxes, bags, or dumpsters for re-use or disposal.



Point Containment and Dust Collection Systems

Small dust collectors with ducting and hoods can be installed in areas where there is pellet leakage. For example, a body vent on an airlock can be fitted with a small, inexpensive automated dust collection system, instead of a static filter. The system would collect escaped pellets so they do not become waste or an environmental issue.

Small local filters can also control powder materials. If a larger process area or group of equipment needs dust control, a larger dust collection system can be designed to accommodate a large number of emission points.



System Evaluation

Evaluate your current system and reduce product waste. Schenck Process provides engineering services to dust collection users that include on-site air filtration surveys. Program participants receive a full assessment of their current air filtration systems along with recommendations on improving efficiencies.



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